



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Royal Sluis B. V.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (T. 1542, AS AMENDED, 7 W.S.C. 2321 ET SEQ.)

CALENDULA

'Orange Gitana'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 30th day of December in the year of our Lord one thousand nine hundred and eighty-two

Attest:

Kenneth A. Evans
Acting
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

John R. Block
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

INSTRUCTIONS: See Reverse.

| | | | | | |
|---|--|--|--|--|-------------------------------------|
| 1a. TEMPORARY DESIGNATION OF VARIETY | | 1b. VARIETY NAME Orange Gitana | | FOR OFFICIAL USE ONLY PV NUMBER 8200083 | |
| 2. KIND NAME Officinalis | | 3. GENUS AND SPECIES NAME Calendula | | FILING DATE 3/15/82 | TIME 8:30 A.M. XXX PM |
| 4. FAMILY NAME (BOTANICAL) Compositae | | 6. DATE OF DETERMINATION September 1979 | | FEE RECEIVED \$ 500.00 \$ 250.00 | DATE 3/15/82 11/26/82 |
| 6. NAME OF APPLICANT(S) Royal Sluis B.V. | | 7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Westeinde 161, P.O. Box 22 1600 AA ENKHUIZEN, Holland | | | 8. TELEPHONE AREA CODE AND NUMBER |
| 9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (corporation, partnership, association, etc.) Corporation | | | 10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Netherlands | | 11. DATE OF INCORPORATION |
| 12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: | | | | | |

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☐ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☐ 13B. Exhibit B, Novelty Statement.
- ☐ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a).) (If YES, answer 14B and 14C below.) ☐ YES ☒ NO

14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? ☐ YES ☐ NO

14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? ☐ YES ☒ NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act,

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

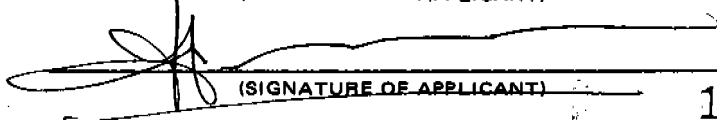
(DATE)

March 4, 1982

August 26, 1981

(DATE)

(SIGNATURE OF APPLICANT)



(SIGNATURE OF APPLICANT)

FORM GR-470-11
(2/77)UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN AND SEED DIVISION
HYATTSVILLE, MARYLAND 20782EXHIBIT C
(Calendula)OBJECTIVE DESCRIPTION OF VARIETY
CALENDULA (CALENDULA OFFICINALIS)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT

Royal Sluis B . V .

ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

Westeinde '161, P.O. Box 22
1600 AA ENKHUIZEN, HollandVARIETY NAME OR TEMPORARY
DESIGNATION

8200083

FOR OFFICIAL USE ONLY

PVPO NUMBER

ORANGE GITANA *RS*

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g., or) when number is either 99 or less or 9 or less.

T-VARIETY ORIGIN:

 1 = SPORT FROM _____ 2 = SELECTION FROM Orange King x Pac. Beauty

2. PLANT:

a Height at anthesis: 1 = DWARF (> 20 CM.) 2 = MEDIUM 125 - 40 CM. 3 = TALL 1 > 45 CM. Stem pubescence: 1 = GLABROUS 2 = SPARSE 3 = DENSE NUMBER OF INTERNODES PER STEM • MEDIAN OF 10 STEMS

3. LEAF (Mid leaf of stem):

E / Shape: 1 = OBLONG 2 = OBLONG-OBOVATE

c Margin: 1 = ENTIRE 2 = DENTICULATE 3 = OTHER (Specify) _____ CM. LONG MM. WIDTH Pubescence: 1 = GLABROUS 2 = DORSAL 3 = VENTRAL 4 = VENTRAL

4. FLOWER HEAD:

c 1 = SINGLE 2 = SEMIDouble c Type: 1 = CHRYSANTHEMUM FLAT-CRESTED 4 = OTHER (Specify) _____ MM. MAXIMUM DIAMETER MM. DEPTH (to peduncle) c center: 1 = UNCOVEREDc 1 = UNIFORM (one head per stem) 2 = TERATOLOGIC (branching from involucre) 3 = USUALLY COVERED WITH RAYSc 1 = MONOCHROME 2 = POLYCHROME (eye of different color)

5. RAY

 1 = INCURVED 2 = FLATTENED 3 = RECURVED 4 = OTHER (Specify) _____ MM. LENGTH MM. WIDTH (of ray lower) 1 = SINGLE COLOR 2 = BICOLOR (describe colors and color pattern) Deep orange with brown petal edgesSingle Color: 01 = CREAM 02 = LEMON 03 = PERSIMON 04 = LIGHT ORANGE 06 = MID-ORANGE
05 = DEEP ORANGE 07 = GOLDEN YELLOW 08 = REDDISH ORANGE 09 = APRICOT 10 = DARK BROWN Color: 1 = CREAM 2 = LEMON 3 = PERSIMON 4 = LIGHT ORANGE 5 = MID-ORANGE 6 = DEEP ORANGE

6. DISK

 MM. LENGTH c Anther: 1 = MONOCHROME 2 = POLYCHROME (dark tipped) Color: 01 = CREAM 02 = LEMON 03 = PERSIMON 04 = LIGHT ORANGE 05 = MID-ORANGE 06 = DEEP ORANGE
07 = GOLDEN YELLOW 08 = REDDISH ORANGE 09 = APRICOT 10 = DARK BROWN

7. **RECOMMENDED USE** (EXAMPLES: *Bedding - Apricot Beauty, Golden Beauty, Flame Beauty. Forcing - Dwarf Orange King, Lemon Queen, Masterpiece - extra long stem, Heat Resistance - Pacific Beauty Series.*

¹_a 1 ■ BEDDING - OUTDOOR GARDEN 2 ■ GREENHOUSE FORCING 3 ■ MULTIPURPOSE

²_a 1 ■ MEAT RESISTANT 2 ■ NOT HEAT RESISTANT

| | |
|---|---|
| 1 | 1 |
|---|---|

 CM FLOWER STEM LENGTH

8. **INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:**

| CHARACTER | VARIETY | CHARACTER | VARIETY |
|-------------|-------------|--------------|-------------|
| Plant Size | Orange Gem | Flower Type | Orange King |
| Plant Habit | Orange Gem | Flower Size | Pac. Beauty |
| Foliage | Pac. Beauty | Flower Color | Orange King |

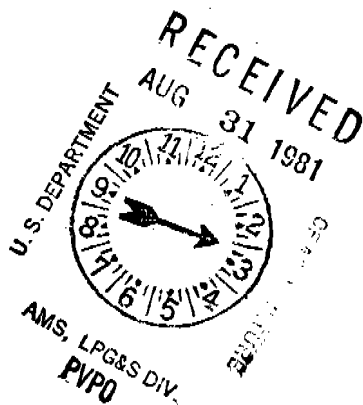
INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Bailey, L. H., 1949, *Manual of Cultivated Plants*, MacMillan
2. Synge, P. M., 1965, *Dictionary of Gardening*, The Royal Horticulture Society, Oxford.
3. Wyman, D., 1971, *Wyman's Gardening Encyclopedia*, MacMillan.

COLOR: Nickerson's or any recognized color fan may be used to determine the color of the variety.

Indicate color standard used HCC 4

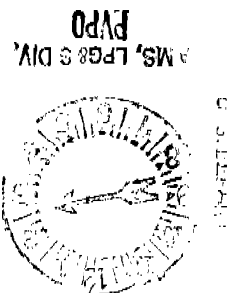


INSTRUCTIONS

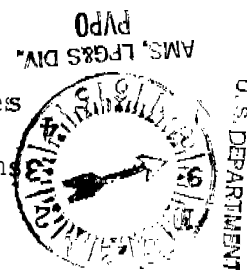
GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the **Regulations** and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly ~~state--how~~ this **novel variety** may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant **habit**, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety **has either** been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



RECEIVED



RECEIVED

Application for P.V.P.

Calendula Orange Gitana

Exhibit A

Orange Gitana has been developed from crossing between Orange King and Pacific Beauty.

Used techniques: single crosses and single plant selections.

When propagated from seed the following variants occur:

| | |
|--------------|---------|
| singles | < 1% |
| semi doubles | + 2, 5% |

Orange Gitana appears stable and uniform after selfing and during the seed increase programme.

Application fox P.V.P.

Calendula Orange Gitana

Exhibit B

Orange Gitana is a new and distinct variety.

Most similar variety:

Plant shape

Flower colour

Orange Gem

taller

light shade without
brown petaledges

R/S 5/25/82

Calendula Application No. ³ 8200082 "Orange Gitana"

Appendix to Exhibit B

Height Orange Gitana

20 cm \pm 2 cm (S = 0,6 N = 50)

Height Orange Gem

23,5 cm \pm 2 cm (S = 0,5 N = 50)

Flowercolour Orange Gitana

HCC 25A with brown petaledges and brown centre.

Flowercolour Orange Gem

HCC 24A with yellow centre.

Appendix to Exhibit A

The percentage of singles in production 1981 is 0,2 %; the percentage of semi-doubles in production 1981 is 2,1%.

These percentages are typical for Calendula and commercially acceptable.

